

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) An apparatus for transmitting information on the physical status of a subject comprising
a carrier for sensors arranged to be worn by the subject for providing electrical signals representative of physical parameters of the subject, and
electronics to receive the electrical signals from the sensors, and to process the signals at the location of the subject, ~~[[said]]~~ the sensors including one or more respiration motion sensors comprising:
a flexible strip having a first conductive lead connecting to an area of resistive material whose electrical resistance varies as the strip is flexed, the area of the resistive material being formed using conductive ink on an arched portion of the flexible strip for setting a neutral resistance from which the electrical resistance is measured as the flexible strip is flexed.
2. (Currently amended) The apparatus of claim 1 wherein the flexible strip is a film laminated to a stiffer base layer comprising ~~[[an]]~~ the arched portion, and wherein the area of resistive material is located on the arched portion.
3. (Currently amended) The apparatus of claim 2 wherein the film ~~[[strip]]~~ and the stiffer base layer are formed so that ~~[[the]]~~ a portion of the flexible strip containing the resistive material is shaped into an arch forming the arched portion.
4. (Original) The apparatus of claim 1 wherein the flexible strip is a film laminated

to the stiffer base layer using a flexible adhesive.

5. (Original) The apparatus of claim 1 wherein the area of resistive material is less than half a square centimeter.

6. (Original) The apparatus of claim 1 wherein the area of resistive material has a rectangular shape with an upper surface area less than half a square centimeter.

7. (Currently amended) The apparatus of claim 6 wherein the flexible strip has ends that are substantially flat.

8. (Original) The apparatus of claim 1 wherein the carrier further comprises a central housing for the electronics, two extensions from the central housing carrying external sensors, and a harness.

9. (Original) The apparatus of claim 8 wherein the harness is configured to position the housing approximately over the subject's solar plexus.

10. (Original) The apparatus of claim 9, wherein the harness has an elastic portion and comprises a first strap that passes around the subject's back and a second strap that passes over the left shoulder.

11. (Original) The apparatus of claim 10 wherein the two extensions extend from the sides of the housing and are connected to the first strap of the harness.

12. (Original) The apparatus of claim 8 wherein the straps of the harness have adjustable lengths to allow fitting to different users.

13. (Original) The apparatus of claim 1 comprising electrical contacts on the flexible strip for connection with the electronics and a second conductive lead on the flexible strip joined to the first conductive lead at the end of the sensor opposite the contacts.

14. (Original) The apparatus of claim 13 comprising electrical contacts and having improved electromagnetic interference rejection comprising a third conductive lead on the flexible strip, said second and third conductive leads located on opposite sides of the first conductive lead, and the three conductive leads joined at an end opposite the contacts.

15. (Original) The apparatus of claim 1 further comprising a cover sheet overlaying the resistive material.

16. (Original) The apparatus of claim 1 further comprising a cover sheet adhered to the resistive material.

17. (Original) The apparatus of claim 1 comprising a voltage divider circuit having two resistors in which one of the resistors comprises the area of resistive material.

18. (Original) The apparatus of claim 1 comprising a decoupling circuit so that an output signal from the respiration motion sensor is proportional to changes in resistance of the area of resistive material.

19. (Original) The apparatus of claim 2 wherein the resistance of the area of resistive material increases as the arched portion of the strip is flexed convexly.

20. (Original) The apparatus of claim 1 wherein the respiration sensor comprises a second flexible strip having a second area of resistive material, wherein the two flexible strips are back-to-back on a single base layer.

21. (Original) The apparatus of claim 20 wherein the two areas of resistive material are in series and connected between fixed voltages, thus creating a voltage divider.

22-96. (Canceled)